

Curriculum Vitae Steve Macaulay

WORK ADDRESS: 1416 Ninth Street, Room 1115-2 Sacramento, California 95814 **WORK TELEPHONE:** (916) 653-6055

FAX: (916) 653-6985 **Email:** macaulay@water.ca.gov

EDUCATION:

M.S. Civil Engineering, California State University, Sacramento, 1972. Major studies in water resources management and environmental engineering.
B.S. Chemical Engineering, University of California, Davis, 1971.

REGISTRATION: State of California, Civil Engineer License No. C 24878 (expires 12-31-2005)

WORK EXPERIENCE:

July 1999 to present. Chief Deputy Director, California Department of Water Resources. Head of the Director's management team in a 3000-person department responsible for California's water resources planning and development. Principal liaison with the CALFED Bay-Delta Program.

July 1994 to July 1999 -- General Manager, State Water Contractors. General Manager of a non-profit water user organization representing 27 public agencies that contract for a water supply from the California State Water Project. Coordination with the Department of Water Resources, other state and federal agencies, elected officials, interest groups and the public. Major issues include: (1) SWP operations and maintenance; (2) SWP water supply contract administration; (3) development of solutions to financial issues; (4) development of a long-term solution to the water supply, water quality, environmental and structural problems of the San Francisco Bay-Delta estuary; and (5) negotiation and implementation of changes in SWP water supply contracts which provide expanded water management tools to SWP water users.

December 1993 to June 1994 -- Principal Engineer, Division of Local Assistance, Department of Water Resources. Chief of Water Conservation Office. Participant in the statewide Urban Water Conservation MOU implementation process, as well as negotiations of a similar agreement among statewide agricultural water users.

March 1991 to December 1993 -- Principal Engineer, Executive Division, Department of Water Resources. Chief of Water Transfers Office; Manager of Governor's 1991 and 1992 Emergency Drought Water Banks. Responsible for all activities associated with implementing the Drought Water Banks, including negotiation of 375 contracts with sellers, 30 contracts with buyers, organization and assignment of staff for all program functions, development of comprehensive monitoring program, budget preparation and fiscal management, coordination of activities within State government, coordination with U.S. Bureau of Reclamation and local government, press contacts, etc. Received commendation from the Director in November 1991 for work on the Drought Water Bank. Prepared a number of publications and reports on water transfers.

June 1987 to February 1991 -- Supervising Engineer, Division of Planning, Department of Water Resources. Project Manager of Kern Water Bank, a large-scale ground water recharge and extraction program. Responsible for all planning activities, including contract and land purchase negotiations, technical studies, budget preparation and management, preparation of preliminary construction plans

and specifications, coordination with local water districts and the State Water Contractors, land management, feasibility report preparation and environmental impact report. Developed interim ground water storage and extraction programs during 1988 and 1990. Received Director's Outstanding Professional Accomplishment Award, August 1989.

May 1984 to May 1987 -- Supervising Engineer, State Water Project Analysis Office, Department of Water Resources. Chief of Water Contracts Branch. Responsible for negotiating contracts and amendments concerning State Water Project facilities and water deliveries; negotiated East Branch Enlargement contract amendment, requiring extensive coordination with water users; technical studies supporting SWP operations; water/power cost studies; water delivery schedules. Concurrent responsibilities on Bay-Delta Hearings Coordination Committee and Water Transfers Committee.

May 1983 to May 1984 -- Senior Engineer, State Water Project Analysis Office, Department of Water Resources. Responsible for preparation of financial and economic feasibility studies of proposed SWP facilities and programs; annual financial analysis of SWP; power cost studies; support to water contract negotiations.

January 1980 to April 1983 -- Senior Engineer, General Staff Branch, Division of Planning, Department of Water Resources. Staff specialist in water rights and water resources management. Manager of water rights program. Represented DWR at water rights hearings; coordinated preparation of testimony for major hearing on water availability in Sacramento and San Joaquin Rivers. Prepared special studies on State acquisition and management of the Federal Central Valley Project, and potential impacts of small hydropower project proposals. Engineer on the team that prepared Environmental Impact Statement leading to designation of 5 northern California rivers under the Federal Wild and Scenic Rivers Act.

September 1978 to December 1979 -- Senior Engineer, Division of Water Rights, State Water Resources Control Board. Responsible for conducting water right studies at the direction of the Division Chief and Board members. Provided staff support to SWRCB 1979 hearings concerning New Melones Reservoir, and to Decision 1485 litigation (Sacramento-San Joaquin Delta water quality standards).

September 1976 to August 1978 -- Senior Engineer, Executive Division, State Water Resources Control Board. Member of staff reporting directly to the Board on developing new water quality control standards for the Delta and Suisun Marsh. Work involved preparing technical reports, extensive analysis of testimony and exhibits, liaison with high level operations and planning staff of DWR, USBR and DFG. Provided testimony and exhibits at hearings, and participated in developing Decision 1485, accompanying EIR, and water quality control plan.

June 1972 to August 1976 -- Assistant/Associate Engineer, Central Valley Regional Water Quality Control Board. Positions in surveillance/monitoring as part of the State's water pollution control program, and planning programs related to water quality in the Sacramento-San Joaquin Delta. Prepared and enforced waste discharge requirements for municipal wastewater treatment facilities and industrial facilities.

ADDITIONAL EXPERIENCE:

Spring 1989 -- Department of Water Resources Executive Program

Spring 1987 -- University of California, Davis Executive Program

June 1983 -- Instructor, University of San Carlos, Guatemala City, Guatemala. Co-instructor of course sponsored by UNESCO and Central American Committee for Water Resources (CRRH), "Hydrologic Forecasting and Operation of Water Resource Systems." Students were practicing engineers from Central American countries.

Spring 1975 -- Instructor, California State University, Sacramento. CE-196, "Water Resources and Water Pollution in the 1970's".

Spring, 1972 -- Intern, California State Assembly, Environmental Quality Committee.

PRINCIPAL PUBLICATIONS:

Resolution of Water Resources Issues In the State of California, United States of America: The CALFED Bay-Delta Program, presented at III Encuentro de las Aguas, Santiago, Chile, October 2001.

The California Water Crisis: Can Irrigation Cope? Presented at Brace Centre Water Symposium, Macdonald Campus of McGill University, Montreal, Canada, September 2001.

Lessons Learned in Management of Water Markets in Scarcity or Drought Conditions, California U.S., presented at the Seminario Internacional Gestion de Recursos Hidricos, Santiago, Chile, December 1996. Organized by the Chilean Ministry of Public Works under the auspices of the United Nations Food and Agricultural Organization.

The 1991 and 1992 California Drought Water Banks, presented at International Commission on Irrigation and Drainage, 15th Congress on Irrigation and Drainage, The Hague, The Netherlands, September 1993.

Water Marketing in California as a Strategy to Meet Future Urban and Irrigation Demands, United States Committee on Irrigation and Drainage, 12th Technical Conference on Irrigation, Drainage and Flood Control, San Francisco, November 1991.

Offstream Ground Water Storage in the Kern Water Bank, American Society of Civil Engineers Water Resources Conference, Sacramento, May 1989.

Overcoming Institutional Barriers to Ground Water Banking: The Kern Water Bank, American Society of Civil Engineers International Symposium on Artificial Recharge of Ground Water, Anaheim, August 1988.

Reconnaissance Report, State Operation and Management of the Central Valley Project, Department of Water Resources, December 1982.

Analysis of Recently Proposed Hydropower Projects in California, Including Environmental Impacts, Department of Water Resources, September 1981.

Planning for the Sacramento-San Joaquin Delta, presented at American Society of Civil Engineers Specialty Conference, Water Forum '81, San Francisco, August 1981.

State Constraints on Allocation of Water from Federal Projects, the New Melones Dam Example, presented at American Society of Civil Engineers Conference on Conservation and Utilization of Water and Energy Resources, San Francisco, August 1979.

Major contributor to a number of DWR publications. Frequent participant at conferences as a speaker and panelist concerning California water issues.

PROFESSIONAL ORGANIZATIONS: American Society of Civil Engineers
U.S. Committee on Irrigation and Drainage

In addition, member of team receiving award as Finalist in the Innovations In American Government Program, Ford Foundation and the J.F. Kennedy School of Government, Harvard University, 1995.